ILYAS IBRAGIMOV

Brooklyn, NY | 929-529-4148 | ilyas.ibragimov@outlook.com | linkedin.com/in/ilyasi | ilyasi.com

SUMMARY

Senior software engineer with 6+ years building platform infrastructure and trading systems at quantitative hedge funds. At Two Sigma, backend engineer on firm-wide cost and metrics systems in Python, dbt, BigQuery, and SQL, with multiple LLM-powered tools in production. Previously built Python portfolio analytics, optimized C++ trading systems, and integrated exchange connections.

EXPERIENCE

Senior Software Developer
Nov. 2022 – Present

Two Sigma (via Randstad Digital)
New York, NY

- Built and maintained the ELT pipeline for a firm-wide cost transparency platform over 3 years with Python, dbt, and BigQuery: 8+ disparate data sources, 15+ TB of usage data daily across hundreds of products, $80MM+ in annual spend. Became sole backend engineer after the lead's departure.
- Built a firm-wide metrics platform in Python, BigQuery, and SQL, ingesting hundreds of KPIs from multiple teams and sources for executive dashboards and team-level tracking.
- Onboarded a new engineer to the team and together decomposed an inherited legacy monolith into 5 loosely coupled pipelines with dedicated CI/CD, automated testing, and programmatic data ingestion.
- Drove early adoption of dbt (Data Build Tool) at the firm. Co-authored the internal best practices guide, built quickstart repos, and gave presentations that accelerated usage across multiple teams. Led the migration from Apptio to Python, dbt, and BigQuery, delivering $1MM+ in annual savings and 65% faster processing.
- Created an LLM-powered department reorganization detection system: a pipeline using Claude and Vertex AI that analyzes employee movement patterns, classifies organizational changes, and applies retroactive cost corrections. Eliminated weeks of manual investigation per reorganization.
- Designed an automated incident response system with GitHub issue creation, Slack alerting, and AI-generated root-cause analysis via Claude Code. Hardened ELT pipelines with schema drift auto-recovery, exponential backoff retries, and safe handling of upstream outages.
- Built a PowerPoint generation framework for Claude Code: fully editable, branded decks with employee photo lookups, auto-generated figures and tables, and Google Workspace uploads. Includes custom skills, prompts, assets, JavaScript rendering scripts, and Playwright layout tests.

Software Developer
Jan. 2020 – Nov. 2022

Blueshift Asset Management
Red Bank, NJ

- Built a real-time portfolio monitoring platform with terminal-based GUI, automated investor reporting, and historical performance tracking. Reduced analysis time by 65% and supported $500M+ in managed assets.
- Optimized the fund's proprietary C++ trading platform, reducing storage by tens of terabytes and production server load by 40%.
- Integrated with multiple equity and crypto exchanges and built Python/Selenium data scrapers feeding alternative data research: social media signals, transcribed investor calls, and market sentiment analysis.
- Designed a real-time compliance monitoring system automatically flagging banned tickers and improper trade amounts before execution, preventing regulatory violations.

Platform Development Intern
July 2018 – Sep. 2018

Fidessa
Woking, UK

- Built a secure file transmission platform in Java and JavaScript that eliminated recurring data breaches affecting 200+ clients, replacing vulnerable manual processes.

TECHNICAL SKILLS

Languages: Python, SQL (BigQuery), C++, Bash, JavaScript
Data & Analytics: dbt, BigQuery, PostgreSQL, Dimensional Modeling, ELT Pipeline Design
Cloud & Infrastructure: GCP (BigQuery, GCS), AWS, Docker, GitHub Actions, Linux/Unix
AI/LLM: Claude Code, Claude API, Claude Skills, MCP Servers, Agentic Workflows, Test-Driven LLM Development
Tools & Platforms: Git, GitHub, Datadog, Jira, Slack, Google Workspace, Excel, REST APIs
Frameworks & Testing: Flask, Django, Playwright, Selenium

EDUCATION

University College London (UCL) — London, UK
Master of Engineering (Electronic & Electrical), First Class Honors (4.0 GPA Equivalent) — 2019

Baruch College MFE Program — New York, NY
C++ Programming for Financial Engineering Certificate, Distinction — 2020

Brooklyn Technical High School — Brooklyn, NY
High School Diploma, Mathematics Major, Math Team, 4.0 GPA — 2015

PROJECTS

Network Packet Routing with Deep Reinforcement Learning — MEng Thesis, First Class Honors
University College London (UCL) — 2019

- Developed deep reinforcement learning models for optimal packet routing in software-defined networks using Python, OpenAI Gym, and TensorFlow.

Deep Learning Applications in Cryptocurrency Trading — BEng Thesis, First Class Honors
University College London (UCL) — 2018

- Built and refined LSTM networks for cryptocurrency return prediction using Python/Keras with extensive feature engineering and data mining.